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ABSTRACT OF THE DISCLOSURE

A method is provided for co-simulating a digital circuit using a simulation engine (45) which communicates with one or more first programming languages by means of a foreign language interface and which communicates directly with one or more second programming language. At least one first model (2, 3) or at least one first part of the digital circuit is provided in at least one high-level hardware description language which supports concurrent processes communicating with each other. The at least one first model is converted (50, 51) to at least one software model in the at least one first language. At least one second model (4, 5, 6) of at least one second part of the digital circuit is provided in the at least one second language.

METHOD OF CO-SIMULATING A DIGITAL CIRCUIT

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BACKGROUND OF THE INVENTION

1. FIELD OF THE INVENTION:

The present invention relates to a method of co-simulating a digital circuit. Such a method may be used as part of the design and manufacturing process of integrated circuits, for example of VLSI type.

2. DESCRIPTION OF THE RELATED ART:

Non-trivial digital hardware circuits are usually designed using a synthesis-based approach where the circuit is described in a Hardware Description Language (HDL) and then synthesised into hardware using a synthesis tool. VHDL (for example as disclosed in IEEE Computer Society, "IEEE Standard VHDL Language Reference Manual" New York. USA, March 1988. IEEE Std 1076-1987 and IEEE Computer Society, "IEEE Standard VHDL Language Reference Manual" New York, USA, June 1994. IEEE Std 1076-1993) and Verilog HDL (for example as disclosed in IEEE computer Society, "IEEE Standard Hardware Description Language Based on the Verilog Hardware Description Language." New York, USA 1996. IEEE Std 1364-1995) are commonly used hardware description languages. However, as circuit complexity continues to increase, there is a trend to use

higher-level hardware description languages, usually based on programming languages such as C (for example as disclosed in, Brian

W. Kernighan and Dennis M. Ritchie, "The C Programming Language. Prentice-Hall, USA, second edition, 1988") and C++ (for example as disclosed in Bjarne Stroustrup, "The C++ programming language." Addison-Wesley series in computer science, Addison-Wesley, Reading, MA, USA) instead of register transfers.

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Such languages allow the design of hardware in terms of algorithms. High-level synthesis tools (for example as disclosed in Daniel Gajski, Nikil Dutt, Allen Wu, and Steve Lin, "High-Level Synthesis, introduction to Chip and System Design. Kluwer Academic Publishers, Boston/Dordrecht/London, 1992) are then used to generate level HDL descriptions lower from the given algorithm-level descriptions. Similarly to software design, the use of a high-level language usually results in shorter design times.

In some systems, the high-level HDL used is simply a well known programming language. For instance System C (for example as disclosed in Synopsys Inc. "Overview of the

Open System C initiative," datasheet available on the internet from www.systemc.org,1999) uses C++ as a system description language. In other cases, a programming language with extensions relevant to hardware design is Examples of such systems include the Tangram system (as disclosed in K. van Berkel, J. Kessel, M. Roncken, R. Saeijs, and F. Schalij, "The VLSI-Programming Language Tangram and its Translation into Handshake Circuits", Proceeding of the European Design Automation Conference (EDAC 91), pages 384-389, Amsterdam, February 1991, IEEE, IEEE Computer Society Press and Kees van Berkel, "Handshake Circuits", volume 5 of Cambridge International Series on Parallel Computation, Cambridge University Press, Cambridge, UK, 1993) and the Bach system (as disclosed in Akihisa Yamada, Koichi Nishida, Ryoji Sakurai, Andrew Kay, Toshio Nomura and Takashi Kambe, ""Hardware synthesis with the BACH system" "International Symposium on Circuits and Systems, 1999 and in GB 231724S).

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The language used by the Bach hardware compiler extends the C language with (amongst other features) constructs for expressing explicit parallelism and synchronous communication. The Bach language is based on the

Communicating Sequential Processes (CSP) model, which is disclosed in C.A.R. Hoare, "Communicating sequential processes." Communications of the ACM, 21 (8):666-677, August 1978 and C.A.R. Hoare, "Communicating Sequential Processes." Prentice-Hall International, Englewood Cliffs (NJ), USA, 1990, first edition published in 1985 by Prentice-Hall and which is a model of computation which supports concurrency. The Tangram language is also based on CSP.

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Another important advantage of using a high-level HDL is faster simulation speeds due to the level of abstraction of the design description. Very fast simulation speeds can also be achieved by compilation based simulation (see for example L.T. Wang, N.E. Hoover, E.H. Porter, and J.J. Zasio. "SSIM: A software levelised compiled-code simulator", Proceeding of the 24th Design Automation Conference, pages 2-8, IEEE, IEEE Computer Society Press, 1987) where the hardware description is compiled into an executable format rather than interpreted by the simulation engine. In the case of using a sequential programming language (such as C++) as a HDL, a hardware description can be compiled and simulated simply by using a standard compiler for the particular language. If the

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programming language used is extended with hardware design relevant features such as parallelism, then a hardware description can be converted into a sequential program before being compiled. For example, in the Tangram system, a hardware description can be converted into a C program as disclosed in Kees van Berkel, "Handshake Circuits," volume 5 of Cambridge University Press, Cambridge, UK, 1993. Also, JP 1121939 describes a simple mechanism for converting CSP features into a sequential language.

In systems comprising of one or more components, every component may be described in a language chosen for its particular strengths and expressiveness. For example, a hardware description language is used for hardware components and a software programming language is used for software components. It is therefore very common that the components in a system are described in several languages. Figure 4 of the accompanying drawings shows an example of such a system description. The complete system description comprises a plurality of component model descriptions which communicate with each other. The Bach C Language mentioned hereinbefore is used at 2 and 3 to provide descriptions of a demodulator component

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and an error correction decoder component. The VHDL language mentioned hereinbefore is used at 4 and 5 to describe a RAM (random access memory) component and a Fast Fourier Transform (FFT) component. The C Language is used at 6 to describe a test bench component.

Since the verification of such a system is an essential part of its design process, it is required that the simulation, is fast as a lot of verification, or simulation data may have to be processed. simulation process is often referred to as co-simulation because of the heterogeneous nature of the system. different system component models need to communicate with each other during co-simulation, and known methods, such as that disclosed in US 5335191, can be used. One method for the co-simulation of a hardware component designed in a high-level HDL is to synthesise the hardware description into a lower-level HDL using a high-level synthesis tool or simulation engine 8 as illustrated in Figure 2 of the accompanying drawings, and then cosimulate the low-level description using the hardware simulation tool. However, this method does not take advantage of the fact that a high-level description can be used for simulation, and has the following

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disadvantages:

- (a) synthesis time overhead;
- (b) slower simulation due to the use of a lower-levelHDL;
 - (c) applicable only to synthesisable descriptions.

Hardware simulators presently available allow the simulation of models described in different HDLs, as well as foreign models, that is, models described using means other than the HDLs understood by the simulator. For instance, the latest standard of VHDL (for example as disclosed in IEEE Computer Society, "IEEE Standard VHDL Language Reference Manual, " New York. USA, June 1994. IEEE Std 1076-1993) allows the specification of foreign entities. The Synopsys VSS simulator (as disclosed in Synopsys Inc. VSS Reference Manual. USA, 1998) provides a C Language Interface (CLI) (as disclosed in Synopsys Inc. VSS Interfaces Manual. USA. 1998) for the implementation of foreign entities using the C language. Similarly the Model Technology ModelSim simulator (as disclosed in Model Technology Inc. ModelSim SE/EE User's Manual. USA.1999) provides a Foreign Language Interface (FLI) for the same reason. The simulation engine described

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in David A. Burgoon. A mixed-language simulator for concurrent engineering. In The Proceedings for the 1998 International Verilog HDL Conference and VHDL International Users Forum, US, March 1998. IEEE Computer Society is also capable of co-simulating C models with lower level Verilog Models. These particular methods apply only when the high-level hardware is described in a sequential language such as C. Further, the C code must be written in a special stimulus-response fashion, which is not purely algorithmic.

SUMMARY OF THE INVENTION

According to a first aspect of the invention, there is provided a method of co-simulating a digital circuit using a simulation engine which communicates with at least one first programming language by means of a foreign language interface and which communicates directly with at least one second programming or hardware description language, comprising the steps of:

(a) providing at least one first model of at least one first part of the digital circuit in at least one high-level hardware description language which supports

concurrent processes communicating with each other:

(b) converting the at least one first model to at least one software model in the at least one first language;

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- (c) providing at least one second model of at least one second part of the digital circuit in the at least one second language; and
- (d) applying the at least one software model in the at least one first language and the at least one second model in the at least one second language to the simulation engine.
 - A high-level or behavioural hardware description is a description of a hardware component which specifies only the behaviour of the component and does not specify its physical architecture, such as the logical, arithmetic and storage components of which it is constituted, the clock rate and its timing. The behaviour is usually given as an algorithm. A high-level or behavioural hardware description language is a language in which the high-level description of the hardware can be described. High-level or behavioural hardware synthesis or

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compilation is the process of generating a hardware low-level description from a high-level hardware description. Given a clock rate, this process infers the required logical, arithmetic and storage components, the signals connecting them, their timing and controlling logic.

The converting step (b) may comprise compiling the at least one first model in the at least one high-level hardware description language to the at least one software model in the at least one first language.

The at least one high-level hardware description language may be based on a communicating sequential processes model.

The at least one first part of the digital circuit may be represented in the at least one high-level hardware description language as a plurality of concurrent processes which communicate with each other and the converting step (b) may comprise converting the concurrent processes to a sequential software process. The software process may comprise at least one stimulus unit for detecting a predetermined stimulus and at least

one response unit for providing a predetermined response in response to the at least one stimulus unit. At least one of the response units may comprise a process response unit for performing a desired behaviour of the at least one first part of the digital circuit. The desired behaviour may comprise a plurality of discrete processes triggered by a common event and the process response unit may comprise a scheduler for scheduling the discrete processes and a process handler for performing the discrete processes in accordance with the scheduling. The scheduler may: form a list of active unhandled processes having respective exit points; choose from the list a current process; and select an entry point for the current process.

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At each exit point, the scheduler may choose from the list a further current process and may select a further entry point for the further current process.

The converting step (b) may comprise: generating, for at least one of the discrete processes, software code including a program loop having a jump instruction and a loop termination condition; analysing the loop termination condition to determine whether it is possibly



non-terminating; and, if so replacing the jump instruction with an exit point.



At the exit point, the scheduler may place the at least one discrete process in the list of active unhandled processes with a new entry point.

According to a second aspect of the invention, there is provided a method of designing a digital circuit, comprising performing a method according to the first aspect of the invention, checking whether the result of the co-simulation is correct, checking whether the digital circuit is synthesisable, and generating a low-level hardware description of the digital circuit.

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According to a third aspect of the invention, there is provided a method of manufacturing a digital circuit, comprising performing the method according to the second aspect of the invention and forming, from the low-level hardware description, an integrated circuit including the digital circuit.

According to a fourth aspect of the invention, there is provided an integrated circuit made by a method according

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to the third aspect of the invention.

According to a fifth aspect of the invention, there is provided an apparatus for performing a method according to the first or second aspect of the invention.

The apparatus may comprise a computer programmed by a computer program.

According to a sixth aspect of the invention, there is provided a computer program for an apparatus according to the fifth aspect of the invention.

According to a seventh aspect of the invention, there is provided a storage medium containing a program according to the sixth aspect of the invention.

In the present method, a high-level sequential description of a synchronous hardware model can be generated automatically from a high-level hardware description based on a concurrent model of computation. The model description can be compiled into executable code and can be co-simulated with other system components. We therefore achieve the advantages of both high-level HDL

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simulation and compilation based simulation for the co-simulation of a high-level hardware description with other system components.

. An example of the use of this method is to co-simulate a hardware circuit described as an algorithm in a CSP-based .high-level language with other system components during system design and development. example, this method can be used for the fast cosimulation of hardware circuits described in the Bach C language with other system components. Figure 1 of the accompanying drawings illustrates the Bach hardware design flow, where hardware is described in the Bach high-level language, and a low-level synthesisable hardware description is generated automatically. Since the hardware designer uses a high-level language instead of a lower level one (such as VHDL), the design process is much quicker and therefore cheaper than traditional hardware design processes. The use of the present method allows the co-simulation of the hardware component to be done at the algorithm-level and is therefore much faster than a co-simulation process where lower-level hardware descriptions are used. As a result, the time spent in hardware design is reduced.

The advantages of this method include:

(a) allowing the co-simulation of the hardware component to be done at the

algorithm-level and therefore:

- (1) the simulation is independent of the target architecture;
- 10 (11) the simulation is much faster than simulations at lower levels since the amount of detail that is simulated is much less.
- (b) The component model can be compiled into the native code of the machine used for simulation from an algorithmic description. This approach offers very high simulation speeds.
 - (c) The generation of the hardware component model
 used for simulation does not require complex precomputations and is therefore quite efficient.
 - (d) It is often desirable to co-simulate a hardware description with other system components during the early

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stages of hardware development, that is, before an efficient and fully synthesisable hardware description has been developed. Since the hardware description used for co-simulation does not need to be synthesised into lower level descriptions, this co-simulation method can be used during these early stages of the design flow.

The above factors all contribute to the advantages associated with high-level hardware (and system) design flow:

- (A) quicker time-to-market,
- (B) and the ability to explore a large design space and hence develop more efficient designs.

The invention will be further described, by way of example, with reference to the accompanying drawings.

20 BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 illustrates the design flow of hardware using a high-level language and including a method of constituting an embodiment of the invention;

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Amendments to the Claims

(currently amended) A method of co-simulating a digital circuit using a simulation engine which communicates with at least one first programming language by means of a foreign language interface and which communicates directly with at least one second programming or hardware description language, comprising the steps of:

- (a) providing at least one first model of at least one first part of the digital circuit in at least one high-level hardware description language which supports concurrent processes communicating with each other:
- (b) converting the at least one first model to at least one software model in the at least one first programming language, wherein converting includes generating, for at least one discrete process, software code including a program loop having a jump instruction and a loop termination condition, and analyzing the loop termination condition to determine whether it is possibly non-terminating not automatically determined to be definitely terminating and, if so, replacing the jump instruction with an exit point;
 - (c) providing at least one second model of at least one second part of the digital circuit in the at least one second language; and
 - (d) applying the at least one software model in the at least one first language and the at least one second model in the at least one second language to the simulation engine, so as to perform a simulation in order to obtain a simulation result.
 - 2. (original) A method as claimed in claim 1, in which the converting step (b) comprises compiling the at least one first model in the at least one high-level hardware description language to the at least one software model in the at least one first language.
 - 3. (original) A method as claimed in claim 1, in which the at least one high-level hardware description language is based on a communicating sequential processes model.

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Liquid Common Lisp

The Loop Facility

The Loop Facility is an extensible iteration mechanism that provides you with a variety of ways to iterate and to accumulate values in a loop. This book discusses in detail the Loop Facility and its use, including the defined loop keywords and various error conditions.

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Copyright and Trademarks

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- 2 Loop Constructs
- 3 Error Conditions
- A Alphabetical Listing of Loop Constructs

Glossary

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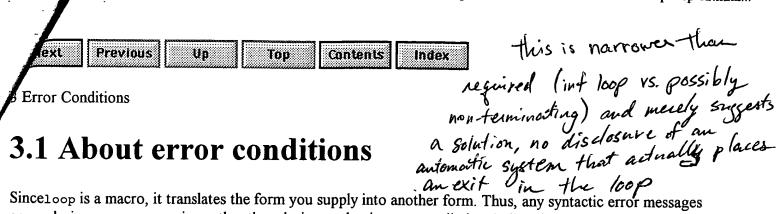
The Loop Facility - 9 SEP 1996

Next

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Sinceloop is a macro, it translates the form you supply into another form. Thus, any syntactic error messages occur during macro expansion rather than during evaluation or compilation. When the Loop Facility parses the given form, it expects clauses to have loop keywords and data supplied in specific orders. Unexpected symbols or data generate an error and an error message. The message explains what the Loop Facility did not understand and where the error occurred.

There are some common errors that occur when the Loop Facility is used, and many are easily corrected. This chapter discusses these errors, their causes, and possible solutions. Examples that would generate errors are also supplied.

Problem: The loop form is being translated into an infinite loop; it never returns.

Reason: You forgot to specify a loop termination clause, or you supplied a termination clause that is not being executed.

Example: Lacking proper termination conditions.

Solution: To correct this problem, either specify a termination clause or revise the iteration conditions so that termination is possible.

Problem: An unrecognized form is encountered where a loop keyword is expected.

Reason: The Loop Facility parses the form that you give it token by token. Each token is one of the items in the form. If the Loop Facility cannot recognize a token as a loop keyword when a loop keyword is expected, it generates an error and a message.

The most common reasons that a token cannot be recognized as a loop keyword are as follows:

• the loop keyword is misspelled

Somewhat refevant,

\$4.5 suggests the claimed

limitation could be novel in

A Survey on Automatic Test Data Generation* certain context

Jon Edvardsson,
Dept. of Computer and Information Science,
Linköping University, Sweden

E-mail: joned@ida.liu.se

Abstract

In order to reduce the high cost of manual software testing and at the same time to increase the reliability of the testing processes researchers and practitioners have tried to automate it. One of the most important components in a testing environment is an automatic test data generator — a system that automatically generates test data for a given program. Through the years several attempts in automatic test data generations have been made. The focus of this article is program-based generation, where the generation starts from the actual programs. Thus, techniques such as GUI-based and syntax-based test data generation are not an issue in this article.

In this article I present a survey on automatic test data generation techniques that can be found in current literature. Basic concepts and notions of test data generation as well as how a test data generator system works are described. Problems of automatic generation are identified and explained. Finally important and challenging future research topics are presented.

1. Introduction

Software testing accounts for 50% of the total cost of software development [1]. This cost could be reduced if the process of testing is automated. One way to do this would be to generate input data to the program to be tested — program-based test data generation.

Through the years a number of different methods for generating test data have been presented. In 1996 Ferguson and Korel [5] divided these methods in three classes: random, path-oriented, and goal-oriented test

data generation. This is the most appropriate classification in terms of test data generation, although the problem of path selection is not considered separately. The selection of a path can largely affect the whole process of test data generation.

Figure 1 models a typical test data generator system, which consists of three parts: program analyzer, path selector and test data generator. The source code is run through a program analyzer, which produces the necessary data used by the path selector and the test data generator. The selector inspects the program data in order to find *suitable* paths. Suitable can for instance mean paths leading to a high code coverage. The paths are then given as argument to the test data generator which derives input values that exercise the given paths. The generator may provide the selector with feedback such as information concerning infeasible paths.

The structure of this paper is as follows. In section 2 basic concepts and notions are explained. Section 3 discusses the test data generator system with focus on the generator and the path selector. The program analyzer is not further investigated in this article. In section 4 the problems I have identified in test data generation are discussed. Finally, in section 5 conclusions are made and future research topics are presented.

2. Basic Concepts

A program \mathcal{P} could be considered as a function, $\mathcal{P}: S \to R$, where S is the set of all possible inputs and R the set of all possible outputs. More formally S is the set of all vectors $\mathbf{x} = (d_1, d_2, \dots, d_n)$ such that $d_i \in D_{x_i}$ where D_{x_i} is the domain of input variable x_i .

An input variable x of \mathcal{P} is a variable that either appears as an input parameter of \mathcal{P} or in an input statement of \mathcal{P} , e.g. read(x). Execution of \mathcal{P} for a certain input x is denoted by $\mathcal{P}(x)$.

A control flowgraph, or just flowgraph when context is clear, is a graphical representation of a pro-

^{*}Published as: J. Edvardsson. A survey on automatic test data generation. In Proceedings of the Second Conference on Computer Science and Engineering in Linköping, pages 21-28. ECSEL, October 1999.

Serial No. 10/014,831

Amendments to the Claims

- 1. (currently amended) A method of co-simulating a digital circuit using a simulation engine which communicates with at least one first programming language by means of a foreign language interface and which communicates directly with at least one second programming or hardware description language, comprising the steps of:
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- (b) converting the at least one first model to at least one software model in the at least one first programming language, wherein converting includes generating, for at least one discrete process, software code including a program loop having a jump Instruction and a loop termination condition, and analyzing the loop termination condition to determine whether it is possibly non-terminating not automatically determined to be definitely terminating and, if so, replacing the jump instruction with an exit point;
- (c) providing at least one second model of at least one second part of the digital circuit in the at least one second language; and
- (d) applying the at least one software model in the at least one first language and the at least one second model in the at least one second language to the simulation engine, so as to perform a simulation in order to obtain a simulation result.
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- 3. (original) A method as claimed in claim 1, in which the at least one high-level hardware description language is based on a communicating sequential processes model.

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61 A hierarchical structure for fault tolerant reactive programs

Andrea Clematis, Vittoria Gianuzzi

March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice

Publisher: ACM Press

Full text available: pdf(613.91 KB) Additional Information: full citation, references, index terms

Keywords: backward error recovery, concurrent programming, software fault tolerance, transaction based systems

62 Research issues in spatial databases



O. Guenther, A. Buchmann

December 1990 ACM SIGMOD Record, Volume 19 Issue 4

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	0	R PRE()COMPIL????? OR PREEXECUT???)		
S3	1993	(INFINITE OR ENDLESS OR NONTERMIN????? OR UNENDING OR ALDE-		
	R	SON OR NON()(TERMIN??? OR END???))(2W)(LOOP? ? OR ITERATION?		
	?			
S4	0	S2 AND S3		
S5	3759665	STOP???? OR PREVENT????? OR CURTAIL??? OR IMPED??? OR INTE-		
	R	RUPT? OR DISABL??? OR DEACTIVAT??? OR DE()ACTIVAT???		
S6	1695744	BREAK??? OR EXIT??? OR TERMIN??? OR BRANCH??? OR (CONTROL (-		
		W) FLOW)		
S7	6096217	UPDAT??? OR PLAC??? OR CHANG??? OR MODIF???????? OR ALTER-		
	?	?? OR CONVERS??? OR CONVERT??? OR EDIT??? OR UP(W)DAT??? OR -		
	I.	NSERT??? OR ADD???		
S8	20	(== 1:: 11, 11:: 11 11:: 11:: 11:: 11:: 1		
S9	18			
	•	AD=(20051216:20060628))		
S10	4	· · · · · · · · · · · · · · · · · · ·		
S11	11	((()) ()		
	-	9 OR S10) .		
? show files				
File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)				
		006 JPO & JAPIO		
File		nt WPIX 1963-2006/UD,UM &UP=200640		
_	(c) 2	006 The Thomson Corp.		

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10/5/3 (Item 1 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2006 The Thomson Corp. All rts. reserv.

Image available 014747738

WPI Acc No: 2002-568442/200261

XRPX Acc No: N02-450042

Digital circuit co-simulation method for integrated circuit designing involves converting models of digital circuit into software models and applying the models to simulation engine depending on description languages

Patent Assignee: SHARP KK (SHAF); KAY A (KAYA-I); ZAMMIT V (ZAMM-I)

Inventor: KAY A ; ZAMMIT V

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No Kind Applicat No Kind Date Date GB 2370134 20020619 GB 200030735 20001215 200261 B Α Α US 20020083420 A1 20020627 US 200114831 Α 20011211 200261 JP 2002183234 A 20020628 JP 2001378776. Α 20011212 200261

Priority Applications (No Type Date): GB 200030735 A 20001215

Patent Details:

Patent No Kind Lan Pq Main IPC Filing Notes

.A • 56 G06F-017/50 GB 2370134

US 20020083420 A1 G06F-009/44

JP 2002183234 A 23 G06F-017/50

Abstract (Basic): GB 2370134 A

NOVELTY - A portion of digital circuit is defined by primary model in high level hardware description language and is converted into software model. The next portion of digital circuit is defined by a secondary model using different language. The models of digital circuit produced corresponding to two languages are applied to a simulation engine (45).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- Method of designing digital circuit;
- (2) Method of manufacturing digital circuit;
- (3) Integrated circuit;
- (4) Apparatus for designing digital circuit;
- (5) Program for designing digital circuit; and
- (6) Storage medium having program for designing digital circuit. USE For designing of IC e.g. very large scale integrated circuit.

ADVANTAGE - High speed simulation of digital circuit is achieved, as the complex precomputations in the generation of hardware component model is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows the overall method used for generating simulation model for digital circuit.

Simulation engine (45)

pp; 56 DwgNo 10/30

Title Terms: DIGITAL; CIRCUIT; CO; SIMULATE; METHOD; INTEGRATE; CIRCUIT; DESIGN; CONVERT; MODEL; DIGITAL; CIRCUIT; SOFTWARE; MODEL; APPLY; MODEL; SIMULATE; ENGINE; DEPEND; DESCRIBE; LANGUAGE

Derwent Class: T01

International Patent Class (Main): G06F-009/44; G06F-017/50

File Segment: EPI

9/5/8 (Item 8 from file: 347)

DIALOG(R) File 347: JAPIO

(c) 2006 JPO & JAPIO. All rts. reserv.

01586845 **Image available**
PROGRAM RUNAWAY PREVENTING METHOD

PUB. NO.: 60-065345 [JP 60065345 A] PUBLISHED: April 15, 1985 (19850415)

INVENTOR(s): NISHIURA YOSHIKAZU

APPLICANT(s): SHARP CORP [000504] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 58-174988 [JP 83174988]
FILED: September 20, 1983 (19830920)
INTL CLASS: [4] G06F-011/00; G05B-009/02

JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);

22.3 (MACHINERY -- Control & Regulation)

JAPIO KEYWORD: R097 (ELECTRONIC MATERIALS -- Metal Oxide Semiconductors,

MOS); R129 (ELECTRONIC MATERIALS -- Super High Density

Integrated Circuits, LSI & GS

JOURNAL: Section: P, Section No. 381, Vol. 09, No. 203, Pg. 16, August

21, 1985 (19850821)

ABSTRACT

PURPOSE: To **prevent** the runaway of a program by **modifying** the contents of a program counter with the contents of another register and setting forcibly the contents of another register to the prescribed value.

CONSTITUTION: A system has an instruction to load the contents of an accumulator R (4 bits) to the lower 4 bits of a program counter PC (8 bits). When the contents of the PC go to 1FHEX, for example, according to the progress of a program, a program branching instruction ATPL is executed. When this execution is closed, the contents of the R are once set forcibly at ''0''. In this case, however, the restriction is previously set so that the lower 4 bits of the PC are not set at ''0''. The contents of the PC and the R always go to 1FHEX and OHEX respectively after the execution of instruction ATPL even in an unexpected case where the contents of the PC and the R go to 1FHEX and FHEX respectively. Then the contents of the PC are branched to 10HEX in the next cycle. Thus an endless loop is prevented.

?

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Items
                Description
S1
       396399
                 (ANALY???? OR EXAMIN????? OR EVALUAT??? OR CHECK???) (3N) (C-
             ODE? ? OR INSTRUCTIONS OR PROCEDURE? ? OR ROUTINE? ? OR SUBRO-
             UTINE? ? OR MODULE? ? OR SCRIPT? ? OR APPLICATION? ? OR LOOP?
             ? OR ITERATION? ?)
S2
                S1(10N)(((PRIOR OR BEFORE)(2W)EXECUT???) OR PRECOMPIL?????
             OR PRE() COMPIL????? OR PREEXECUT???)
53
       851402
                 (ANALY???? OR EXAMIN????? OR EVALUAT??? OR CHECK???) (10N) (-
             CODE? ? OR INSTRUCTIONS OR PROCEDURE? ? OR ROUTINE? ? OR SUBR-
             OUTINE? ? OR MODULE? ? OR SCRIPT? ? OR APPLICATION? ? OR LOOP?
              ? OR ITERATION? ?)
                S3(10N)(((PRIOR OR BEFORE)(2W)EXECUT???) OR PRECOMPIL?????
S4
             OR PRE()COMPIL????? OR PREEXECUT???)
S5
                (INFINITE OR ENDLESS OR NONTERMIN????? OR UNENDING OR ALDE-
             RSON OR NON() (TERMIN??? OR END???)) (2W) (LOOP? ? OR ITERATION?
             ?)
S6
                S4 (10N) S5
S7
          180
                (UPDAT??? OR PLAC??? OR CHANG??? OR MODIF???????? OR ALTE-
             R??? OR CONVERS??? OR CONVERT??? OR EDIT??? OR UP(W) DAT??? OR
             INSERT???) (10N) S5
                S7(10N)(BREAK??? OR EXIT??? OR TERMIN???)
S8
? show files
File 275: Gale Group Computer DB(TM) 1983-2006/Jun 23
         (c) 2006 The Gale Group
      47:Gale Group Magazine DB(TM) 1959-2006/Jun 26
File
         (c) 2006 The Gale group
     16:Gale Group PROMT(R) 1990-2006/Jun 23
File
         (c) 2006 The Gale Group
File 624:McGraw-Hill Publications 1985-2006/Jun 23
         (c) 2006 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2006/Jun W3
         (c) 2006 ProQuest
File 613:PR Newswire 1999-2006/Jun 24
         (c) 2006 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 239:Mathsci 1940-2006/Aug
         (c) 2006 American Mathematical Society
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 696:DIALOG Telecom. Newsletters 1995-2006/Jun 23
         (c) 2006 Dialog
File 621:Gale Group New Prod.Annou.(R) 1985-2006/Jun 23
         (c) 2006 The Gale Group
File 674: Computer News Fulltext 1989-2006/Jun W2
         (c) 2006 IDG Communications
      88:Gale Group Business A.R.T.S. 1976-2006/Jun 16
File
         (c) 2006 The Gale Group
File 369:New Scientist 1994-2006/Jun W2
         (c) 2006 Reed Business Information Ltd.
File 160: Gale Group PROMT (R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2006/Jun 24
         (c) 2006 ProQuest Info&Learning
File
      15:ABI/Inform(R) 1971-2006/Jun 24
         (c) 2006 ProQuest Info&Learning
       9:Business & Industry(R) Jul/1994-2006/Jun 23
File
         (c) 2006 The Gale Group
File
      13:BAMP 2006/Jun W3
         (c) 2006 The Gale Group
```

File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire

File 610:Business Wire 1999-2006/Jun 24

(c) 2006 Business Wire.
File 647:CMP Computer Fulltext 1988-2006/Jul W4
(c) 2006 CMP Media, LLC

File 98:General Sci Abs 1984-2005/Jan

(c) 2006 The HW Wilson Co.

File 148:Gale Group Trade & Industry DB 1976-2006/Jun 26

(c) 2006 The Gale Group

File 634:San Jose Mercury Jun 1985-2006/Jun 22 (c) 2006 San Jose Mercury News

File 256:TecInfoSource 82-2006/Aug

(c) 2006 Info.Sources Inc

File 636:Gale Group Newsletter DB(TM) 1987-2006/Jun 23

(c) 2006 The Gale Group

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Items
                Description
                (INFINITE OR ENDLESS OR NONTERMIN????? OR UNENDING OR ALDE-
S1
         4522
             RSON OR NON() (TERMIN??? OR END???)) (2W) (LOOP? ? OR ITERATION?
             ?)
                AU=((ZAMMIT V? OR ZAMMIT, V?) AND (KAY A? OR KAY, A?))
S2
                AU=(ZAMMIT V? OR ZAMMIT, V? OR KAY A? OR KAY, A?) AND S1 A-
53
             ND (PD<19991215 OR PY<2000)
54
                (STOP???? OR PREVENT????? OR CURTAIL??? OR IMPED??? OR INT-
             ERRUPT? OR DISABL??? OR DEACTIVAT??? OR DE()ACTIVAT???) (5N)S1
S5
           72
                RD
                    (unique items)
                S5 AND (PD<19991215 OR PY<2000)
S6
           56
? show files
File 275:Gale Group Computer DB(TM) 1983-2006/Jun 23
         (c) 2006 The Gale Group
File
     47:Gale Group Magazine DB(TM) 1959-2006/Jun 26
         (c) 2006 The Gale group
     16:Gale Group PROMT(R) 1990-2006/Jun 23
File
         (c) 2006 The Gale Group
File 624:McGraw-Hill Publications 1985-2006/Jun 23
         (c) 2006 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2006/Jun W3
         (c) 2006 ProQuest
File 613:PR Newswire 1999-2006/Jun 24
         (c) 2006 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 239:Mathsci 1940-2006/Aug
         (c) 2006 American Mathematical Society
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 696:DIALOG Telecom. Newsletters 1995-2006/Jun 23
         (c) 2006 Dialog
File 621:Gale Group New Prod.Annou.(R) 1985-2006/Jun 23
         (c) 2006 The Gale Group
File 674:Computer News Fulltext 1989-2006/Jun W2
         (c) 2006 IDG Communications
     88:Gale Group Business A.R.T.S. 1976-2006/Jun 16
File
         (c) 2006 The Gale Group
File 369:New Scientist 1994-2006/Jun W2
         (c) 2006 Reed Business Information Ltd.
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2006/Jun 24
         (c) 2006 ProQuest Info&Learning
File
     15:ABI/Inform(R) 1971-2006/Jun 24
         (c) 2006 ProQuest Info&Learning
       9:Business & Industry(R) Jul/1994-2006/Jun 23
File
         (c) 2006
                   The Gale Group
File
     13:BAMP 2006/Jun W3
         (c) 2006 The Gale Group
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 610:Business Wire 1999-2006/Jun 24
         (c) 2006 Business Wire.
                                                                    FULL TEXT NPCY
NPL INVENTOR
File 647:CMP Computer Fulltext 1988-2006/Jul W4
         (c) 2006 CMP Media, LLC
      98:General Sci Abs 1984-2005/Jan
         (c) 2006 The HW Wilson Co.
```

File 148:Gale Group Trade & Industry DB 1976-2006/Jun 26

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File 634:San Jose Mercury Jun 1985-2006/Jun 22

(c) 2006 San Jose Mercury News
File 256:TecInfoSource 82-2006/Aug
(c) 2006 Info.Sources Inc
File 636:Gale Group Newsletter DB(TM) 1987-2006/Jun 23
(c) 2006 The Gale Group
?

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Items
                Description
                (INFINITE OR ENDLESS OR NONTERMIN????? OR UNENDING OR ALDE-
S1
         4522
             RSON OR NON() (TERMIN??? OR END???)) (2W) (LOOP? ? OR ITERATION?
             ?)
          207
                (UPDAT??? OR PLAC??? OR CHANG??? OR MODIF???????? OR ALTE-
S2
             R??? OR CONVERS??? OR CONVERT??? OR EDIT??? OR UP(W)DAT??? OR
             INSERT??? OR ADD???) (10N) S1
                S2(10N)(BREAK??? OR EXIT??? OR TERMIN??? OR BRANCH??? OR C-
S3
             ONTROL (2W) FLOW)
? show files
File 275:Gale Group Computer DB(TM) 1983-2006/Jun 23
         (c) 2006 The Gale Group
File
      47:Gale Group Magazine DB(TM) 1959-2006/Jun 26
         (c) 2006 The Gale group
File 16:Gale Group PROMT(R) 1990-2006/Jun 23
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         (c) 2006 McGraw-Hill Co. Inc
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File 813:PR Newswire 1987-1999/Apr 30
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File 239:Mathsci 1940-2006/Aug
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File 370:Science 1996-1999/Jul W3
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File 696:DIALOG Telecom. Newsletters 1995-2006/Jun 23
         (c) 2006 Dialog
File 621:Gale Group New Prod.Annou. (R) 1985-2006/Jun 23
         (c) 2006 The Gale Group
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      88:Gale Group Business A.R.T.S. 1976-2006/Jun 16
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File 369: New Scientist 1994-2006/Jun W3
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File
     15:ABI/Inform(R) 1971-2006/Jun 24
         (c) 2006 ProQuest Info&Learning
       9:Business & Industry(R) Jul/1994-2006/Jun 23
File
         (c) 2006 The Gale Group
     13:BAMP 2006/Jun W3
File
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File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 610: Business Wire 1999-2006/Jun 25
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                                                                FULL PEAT NPC
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         (c) 2006 The HW Wilson Co.
File 148:Gale Group Trade & Industry DB 1976-2006/Jun 26
         (c) 2006 The Gale Group
File 634:San Jose Mercury Jun 1985-2006/Jun 22
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File 256:TecInfoSource 82-2006/Aug

Set	Items Description
S1	1079868 (ANALY???? OR EXAMIN????? OR EVALUAT??? OR CHECK???) (3N) (C-
	ODE? ? OR INSTRUCTIONS OR PROCEDURE? ? OR ROUTINE? ? OR SUBRO-
	UTINE? ? OR MODULE? ? OR SCRIPT? ? OR APPLICATION? ? OR LOOP?
	? OR ITERATION? ?)
S2	93 S1(10N)(((PRIOR OR BEFORE)(2W)EXECUT???) OR PRECOMPIL?????
	OR PRE()COMPIL????? OR PREEXECUT???)
53	1138269 (ANALY???? OR EXAMIN????? OR EVALUAT??? OR CHECK???) (10N) (-
	CODE? ? OR INSTRUCTIONS OR PROCEDURE? ? OR ROUTINE? ? OR SUBR-
	OUTINE? ? OR MODULE? ? OR SCRIPT? ? OR APPLICATION? ? OR LOOP?
	? OR ITERATION? ?)
S4	201 S3(10N)(((PRIOR OR BEFORE)(2W)EXECUT???) OR PRECOMPIL?????
_	OR PRE()COMPIL????? OR PREEXECUT???)
S 5	3561 (INFINITE OR ENDLESS OR NONTERMIN????? OR UNENDING OR ALDE-
	RSON OR NON() (TERMIN??? OR END???)) (2W) (LOOP? ? OR ITERATION?
_ ^	?)
S6	0 S4(10N)S5
s7	279 (UPDAT??? OR PLAC??? OR CHANG??? OR MODIF???????? OR ALTE-
	R??? OR CONVERS??? OR CONVERT??? OR EDIT??? OR UP(W) DAT??? OR
~~	INSERT???) (10N) S5
S8 .	6 S7(10N)(BREAK??? OR EXIT??? OR TERMIN???)
S9	1 AU=((ZAMMIT V? OR ZAMMIT, V?) AND (KAY A? OR KAY, A?))
S10	0 (AU=(ZAMMIT V? OR ZAMMIT, V? OR KAY A? OR KAY, A?) AND S5)
G1 1	NOT (PD=(19991215:20021215) OR PD=(20021215:20060623))
S11	60 S5 AND IC=(G06F-009/44)
S12	24 S11 NOT (PD=(19991215:20021215) OR PD=(20021215:20060623))
S13	237 ((STOP???? OR PREVENT????? OR CURTAIL??? OR IMPED??? OR IN-
	TERRUPT? OR DISABL??? OR DEACTIVAT??? OR DE()ACTIVAT???) (5N)S-
S14	5) NOT (S8:S9 OR S12) 0 S13(100N)((UPDAT??? OR PLAC??? OR CHANG??? OR MODIF???????-
314	?? OR ALTER??? OR CONVERS??? OR CONVERT??? OR EDIT??? OR UP(W-
) DAT??? OR INSERT???) (10N) (BREAK??? OR EXIT??? OR TERMIN???))
S15	41 S13 AND ((UPDAT??? OR PLAC??? OR CHANG??? OR MODIF????????
313	OR ALTER??? OR CONVERS??? OR CONVERT??? OR EDIT??? OR UP(W) D-
	AT??? OR INSERT???) (10N) (BREAK??? OR EXIT??? OR TERMIN???))
S16	62 S13 NOT (S8:S9 OR S12 OR S15 OR PD=(19991215:20021215) OR -
510	PD= (20021215:20060623))
? sho	ow files
	348:EUROPEAN PATENTS 1978-2006/ 200625
	(c) 2006 European Patent Office
File	349:PCT FULLTEXT 1979-2006/UB=20060622,UT=20060615
	(c) 2006 WIPO/Univentio
_	·-,

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Items Description Set (INFINITE OR ENDLESS OR NONTERMIN????? OR UNENDING OR ALDE-S1 3561 RSON OR NON() (TERMIN??? OR END???)) (2W) (LOOP? ? OR ITERATION? (UPDAT ??? OR PLAC ??? OR CHANG ??? OR MODIF ????????? OR ALTE-**S**2 298 R??? OR CONVERS??? OR CONVERT??? OR EDIT??? OR UP(W) DAT??? OR INSERT??? OR ADD???) (10N) S1 **S**3 10 S2(10N) (BREAK??? OR EXIT??? OR TERMIN??? OR BRANCH??? OR C-ONTROL (2W) FLOW) ? show files File 348:EUROPEAN PATENTS 1978-2006/ 200625 (c) 2006 European Patent Office File 349:PCT FULLTEXT 1979-2006/UB=20060622,UT=20060615 (c) 2006 WIPO/Univentio

FATENT

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Description
S1
      1046445
                (ANALY???? OR EXAMIN????? OR EVALUAT??? OR CHECK???) (10N) (-
             CODE? ? OR INSTRUCTIONS OR PROCEDURE? ? OR ROUTINE? ? OR SUBR-
             OUTINE? ? OR MODULE? ? OR SCRIPT? ? OR APPLICATION? ? OR LOOP?
              ? OR ITERATION? ?)
S2
                S1(10N)(((PRIOR OR BEFORE)(2W)EXECUT???) OR PRECOMPIL?????
             OR PRE()COMPIL????? OR PREEXECUT???)
S3
                (INFINITE OR ENDLESS OR NONTERMIN????? OR UNENDING OR ALDE-
             RSON OR NON() (TERMIN??? OR END???)) (2W) (LOOP? ? OR ITERATION?
             ?)
            0
S4
                S2 AND S3
S5
                STOP???? OR PREVENT????? OR CURTAIL??? OR IMPED??? OR INTE-
      2344617
             RRUPT? OR DISABL??? OR DEACTIVAT??? OR DE()ACTIVAT???
      2200183
S6
                BREAK??? OR EXIT??? OR TERMIN??? OR BRANCH??? OR (CONTROL (-
             2W) FLOW)
     14146205
                UPDAT??? OR PLAC??? OR CHANG??? OR MODIF???????? OR ALTER-
S7
             ??? OR CONVERS??? OR CONVERT??? OR EDIT??? OR UP(W)DAT??? OR -
             INSERT??? OR ADD???
                (S1 OR S5) AND S3 AND S6 AND S7
S8
           19
                RD (unique items)
S9
           18
? show files
       2:INSPEC 1898-2006/Jun W3
File
         (c) 2006 Institution of Electrical Engineers
File
       6:NTIS 1964-2006/Jun W3
         (c) 2006 NTIS, Intl Cpyrght All Rights Res
       8:Ei Compendex(R) 1970-2006/Jun W3
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         (c) 2006 Elsevier Eng. Info. Inc.
File 34:SciSearch(R) Cited Ref Sci 1990-2006/Jun W4
        (c) 2006 Inst for Sci Info
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         (c) 2006 ProQuest Info&Learning
File 56:Computer and Information Systems Abstracts 1966-2006/Jun
         (c) 2006 CSA.
File 57:Electronics & Communications Abstracts 1966-2006/Jun
         (c) 2006 CSA.
File 60:ANTE: Abstracts in New Tech & Engineer 1966-2006/Jun
         (c) 2006 CSA.
File 65:Inside Conferences 1993-2006/Jun 28
         (c) 2006 BLDSC all rts. reserv.
File 94:JICST-EPlus 1985-2006/Mar W4
         (c) 2006 Japan Science and Tech Corp (JST)
File
     95:TEME-Technology & Management 1989-2006/Jul W1
         (c) 2006 FIZ TECHNIK
File 99: Wilson Appl. Sci & Tech Abs 1983-2006/May
         (c) 2006 The HW Wilson Co.
File 111:TGG Natl.Newspaper Index(SM) 1979-2006/Jun 19
         (c) 2006 The Gale Group
File 144:Pascal 1973-2006/Jun W1
         (c) 2006 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File 636:Gale Group Newsletter DB(TM) 1987-2006/Jun 27
         (c) 2006 The Gale Group
?
```

Set

Items

Sign in



Web Results 91 - 100 of about 8,110,000 for (endless OR infinite OR alderson) loop (update OR modify OR edit OR add)(break OR exit OR branch). (0.23 seconds)

MySQL Bugs: #121: /configure goes into infinite loop on mit-pthreads configure goes into infinite loop on mit-pthreads MySQL Part of configure reads: (cd mit-pthreads; sh ./configure) I invoked configure as so: sh -v bugs.mysql.com/bug.php?ld=121 - 9k - Cached - Similar pages

REALbasic University: Column 107

We still have a infinite loop and must force quit our app. ... But just in case there's some other odd tag situation, let's add an emergency exit. ... www.applelinks.com/rbu/107/ - 42k - Cached - Similar pages

GNU Emacs Lisp Reference Manual: Debugging

Once you have the debugger running in the middle of the infinite loop, you can proceed from ... The Debugger mode c and r commands exit the recursive edit; ... www.cs.huij.ac.il/-osigor/emacs/elisp-help/elisp-manrel/elisp_18.html - 110k -Cached - Similar pages

The Burning Edge » Gecko 1.8 branch

Gecko 1.8 branch checkins between 2005-11-07 12:00 and 2005-11-11 16:05 ... Fixed: 314684 - Endless update loop from firefox 1.5 beta2 to 1.5 rc1 if 1.0.x ... www.squarefree.com/burningedge/categories/gecko-18-branch/ - 37k -Cached - Similar pages

<?php.

1.6 - Fix for endless loop bug on certain special characters _ line-break would make more sense. You may edit these characters by . www.greywyvern.com/code/php/htmlwrap.phps - 27k - Cached - Similar pages

<u>Troubleshooting - Document routing messages, EHLE039E - EHLE087E</u>
Potential loop; check your connector criteria. Explanation:. A loop might occur because the connector does not contain proper continuation or branch ... publib.boulder.ibm.com/infocenter/cmgmt/

v8r3m0/topic/com.ibm.troubleshooting.doc/frnm2mst39.htm - 19k -

Cached - Similar pages

Tutorial 1 - Basic SDL

This is our main, infinite loop. The if statements update our picture location ... break; case SDLK_UP: upPressed = TRUE; break; case SDLK_ESCAPE: exit(0); ... pgdc.purdue.org/sdltutorial/01/ - 9k - Cached - Similar pages

CVS Update: xc (branch: trunk)

CVS Update: xc (branch: trunk). Thomas Hellstrom xorg-commit at cvs.freedesktop.org ... up in an endless loop if the offending region refuses to be removed. ...

lists.freedesktop.org/archives/xorg-commit/2005-May/002996.html - 3k -

Cached - Similar pages

Timeline - gregarius - Trac

00:57 Ticket #420 (defect) closed by mdodoo: fixed: Turns out the infinite loop (and hence crash) was caused by a variable ... svn.gregarius.net/trac/timeline - 21k - Cached - Similar pages

Recent changes that may break your gadgets - MicrosoftGadgets.com We do have plans to add tabs to let you organize more content on your page, ... or Stack Overflow errors as the code ends up going into an infinite loop. microsoftgadgets.com/forums/1438/ShowPost.aspx - 59k - Cached - Similar pages

> ■ Goooooooooooooooooogle ▶ Result Page: Previous 1 2 3 4 5 6 7 8 9 10 111213141516171819 Next

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A theory of discrete patterns and their implementation in SNOBOL4

JF Gimpel - Communications of the ACM, 1973 - portal.acm.org ... It is a simple matter to modify the algorithm to operate ... BREAK('C') is a transmitter and so is tAB' so ... null string and if s fails, an Infinite loop would occur ... Cited by 19 - Web Search

Challenges in Getting Formal with Viruses - group of 4 >

A Lakhotia, PK Singh - Virus Bulletin, 2003 - cacs.louisiana.edu ... For example, to avoid getting into an Infinite loop, and thereby ... determine whether

the two functions are in a loop. ... will not be too hard to modify a compiler ...

Cited by 11 - View as HTML - Web Search

Dimensional regularization of the path integral in curved space on an infinite time interval - group of 5 >

F Bastianelli, O Corradini, P van Nieuwenhuizen - Anov preprint hep-th/0007105, 2000 - anov.org

... to modify the counterterm V CT since such a ... parts of (2) already at the two-loop

level. ... counterterm of dimensional regularization on the infinite time interval ...

Cited by 13 - View as HTML - Web Search

Affine relationships among variables of a program

MA Karr - Acta Informatica, 1976 - Springer

... We shall modify the matrix AI*-) to obtain A (1. The ... A (,-11 by flo and add it to row i of ... our current concern here that we have an infinite loop; rather, that ...

Cited by 113 - Web Search

Making Flash Animations and Incorporating Them in Web Pages - group of 2 »

RR Silbar - swcp.com

... right-click menu as usual), rename it, and then edit the four ... You're in an endless

loop! ... that it does stop when the button appears - no more trifinite loop. ...

View as HTML - Web Search

crossover from perturbative to nonperturbative physics in QCD become a phase transition at infinite ... - group of 3 »

J Kiskis, RN FIU, H Neuberger - Anniv preprint hep-lat/0308033, 2003 - anniv.org

... At Infinite N, six phases are encountered as b is var ... still is preserved, but the

1 × 1 Wilson loop now has ... the values of b we used, each SU(2) update was done ...

Cited by 26 - View as HTML - Web Search

TEAMS: Testability Engineering and Maintenance System - group of 2 »

KR Pattipati, V Raghavan, M Shakeri, S Deb, R ... - American Control Conference, 1994 - ieeexplore.ieee.org ... enables the user to graphically enter, modify and integrate ... algo- rithm from entering

into an Infinite loop when a ... Feedback loop analysis A system is said to ..

Cited by 8 - Web Search - BL Direct

Chain Reactions in Networks - group of 5 »

U Manber - Computer, 1990 - doi.ieeecs.org

... It presents several examples of actual break- downs, which ... caused a loop of routing

update messages that ... usual vacation reply, and an infinite loop will result. ...

Cited by 7 - Web Search - Library Search

Animating equations on the Web - group of 4 »

RR Silbar - Computing in Science & Engineering [see also IEEE ..., 2000 - ieeexplore.ieee.org

... right-click menu as usual), rename it, and then edit the four ... You're in an endless

loop! ... that it now stops when the button appears—no more infinite loop. ...

Cited by 2 - Web Search

Real-time avionics in Ada 83

DK Silvasi-Patchin - Proceedings of the conference on TRI-Ada'95: Ada's role in ..., 1995 - portal.acm.org

... procedure initiates all relevant timers and goes into an Infinite loop (labeled

as ... Idle Loop I ... Update TM-Bus Circular Buffer Pointers Periodic Built-in Test P-IT ...

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and YP Gupta * Abstract Stabilizing properties based on monotonic behaviour of the solution of the ...
SD FINITE-HORIZON, IN BOUND - Control and Intelligent Systems, 2006 - actapress.com
... FINITE-HORIZON H=CONTROL WITH GUARANTEED INFINITE NORM BOUND ... time from which the
controller gain update is stopped ... wk - w* k, as the closed-loop sys-tem ...
Web Search

Power control and clustering in ad hoc networks - group of 20 »

V Kawadia, PR Kumar - INFOCOM 2003. Twenty-Second Annual Joint Conference of the ... - ieeexplore.ieee.org ... control in this fashion leads to automatic clustering in ... to the kernel routing table and to modify the forwarding ... back to node S, and we have an Infinite loop. ... Cited by 120 - Web Search - BL Direct

Asynchronous backtracking without adding links: a new member in the abt family - group of 4 » C Bessiere, A Maestre, I Brito, P Meseguer - Artificial Intelligence, 2005 - Imm.fr

... procedure Update(myAgentV iew, newAssig) 1 add(newAssig, myAgentV iew ... of our agents can fall into an Infinite loop. ... Interestingly, it is possible to modify ABT ...

Cited by 11 - View as HTML - Web Search

String stability of interconnected systems: an application to platooning in automated highway ... - group of 3 >

D Swaroop - 1994 - path.berkeley.edu

... ical point of view, this study extends the concepts of stability to a countably Infinite ... An Application to Platooning in Automated Highway Systems ... Cited by 78 - View as HTML - Web Search

IBOOK] Automatic verification of finite state concurrent system using temporal logic specifications: a ... EM Clarke, EA Emerson, AP Sistla - 1983 - ACM Press New York, NY, USA Cited by 194 - Web Search - Library Search

Implementing Highly-Available WWW Servers based on Passive Object Replication - group of 6.»

R Baldoni, S Bonamoneta, C Marchetti - Dipartimento di Informatica e Sistemistica, Universita "La ..., 1998 - doi.ieeecs.org ... some certified name-servers (2) to automatically modify the DNS ... of the execution of an infinite loop (lines 14 ... it computes the object state update, the object ... Cited by 2 - Web Search

Concept prototyping a real time switch maintenance expert system

JR Fox, GM Slawsky - Communications, 1988. ICC 88. Digital Technology-Spanning ..., 1988 - ieeexplore.ieee.org ... previously represented information and rapidly modify the content ... 3. VERIFICATION AND USER'S UPDATE TO ADVICE 4 ... Analysis module is an Infinite loop waiting for ... Cited by 1 - Web Search

A system to improve incorrect programs

H Wertz - Proceedings of the 4th international conference on Software ..., 1979 - portal.acm.org ... formed if it doesn't contain obvious infinite loops, doesn ... mete-evaluation of the loop-body and tries to prove ... a dual one indicating how to modify the program ... Cited by 5 - Web Search

Automatic generation of C++ code from an ESCRO2 specification

PC Grabow, L Liu - Computer Software and Applications Conference, 1995. COMPSAC ..., 1995 - ieeexplore.ieee.org ... 3157/95 \$04.00 © 1995 IEEE 18 Automatic Generation of ... ana-lyze an ESCRO2 specification using automated theo rem ... TRUE; boolean c_hw_green::update() I boolean ... Web Search - BL Direct

Expressions for the Mean Transfer Delay of Generalized\$ M\$-Stage Hybrid ARQ Protocols - group of 2 » EFC LaBerge, JM Morris - Communications, IEEE Transactions on, 2004 - ieeexplore ieee.org ... We modify the SFG of Fig ... attempts that terminate in the FAIL state have infinite transfer delay ... this case, the transmittance of the T1-to-T1 loop identified as ... Cited by 1 - Web Search - BL Direct

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Infinite loops and how to create them

Relevance scale Relevance scale

💫 John R. Searle

January 1987 ACM SIGAPL APL Quote Quad, Proceedings of the international conference on APL: APL in transition APL '87, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(361.04 KB) Additional Information: full citation, abstract, references, index terms

Infinite loops are the worst enemy of any programmer in any language. They waste potentially huge amounts of time, system resources and/or money, and can destroy the credibility of the programmer amongst colleagues or customers. In APL, infinite loops can potentially occur wherever a loop is present. However, they can also occur wherever any branching statement is used, and can even occur where no branching instructions have been used. In order to avoid infinite loops, the progra ...

The text's the thing: Concordances to literary texts (abstract only)

Michael Preston

May 1981 ACM SIGSOC Bulletin, Proceedings of the joint conference on Easier and more productive use of computer systems. (Part - I): Information processing in the social sciences and humanities - Volume 1981, Volume 12-13 Issue 4-1

Publisher: ACM Press

Additional Information: full citation, abstract, index terms

The history of computer-generated concordances is already one-third of a century long. Thousands of concordances have been generated; many have been published. Most of these are useful, but there are limitations to all of them. In this presentation I discuss a number of variations on concordance-making based on specific projects being carried out at the University of Colorado. A word-form concordance can be of considerable utility. Particularly for older states of language of which our knowledge ...

3 Speech II: The procedure to construct a word predictor in a speech understanding system from a task-specific grammar defined in a CFG or a DCG

Yasuhisa Niimi, Shigeru Uzuhara, Yutaka Kobayashi

August 1986 Proceedings of the 11th coference on Computational linguistics

Publisher: Association for Computational Linguistics

Full text available: 🔁 pdf(246.58 KB) Additional Information: full citation, abstract, references

This paper describes a method for converting a task-dependent grammar into a word



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Interactive control restructuring

Jeanette M. Bruno, Daniel J. Rosenkrantz

September 1994 ACM SIGAda Ada Letters, Proceedings of the second international symposium on Environments and tools for Ada SETA2, Volume XIV Issue SI

Publisher: ACM Press

Full text available: pdf(1.52 MB)

Additional Information: full citation, abstract, index terms

An interactive algorithm for improving control flow is introduced. This algorithm has been implemented within the ENCORE re-engineering environment. The objective of the algorithm is to restructure input code so as to simplify the control flow. A key feature of the algorithm is that is permits user control during the restructuring. The algorithm also handles, in a natural manner, multiple return statements, multiple loop exits, multi-level loop exits and endless loops.

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181 The use of program profiling for software maintenance with applications to the year



2000 problem

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Thomas Reps, Thomas Ball, Manuvir Das, James Larus

November 1997 ACM SIGSOFT Software Engineering Notes, Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering ESEC '97/FSE-5, Volume 22 Issue 6

Publisher: Springer-Verlag New York, Inc., ACM Press

Full text available: T pdf(1.85 MB) Additional Information: full citation, references, citings, index terms

182 A metaobject protocol for C++



Shigeru Chiba

October 1995 ACM SIGPLAN Notices, Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '95, Volume 30 Issue 10

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.60 MB)

This paper presents a metaobject protocol (MOP) for C++. This MOP was designed to bring the power of meta-programming to C++ programmers. It avoids penalties on runtime performance by adopting a new meta-architecture in which the metaobjects control the compilation of programs instead of being active during program execution. This allows the MOP to be used to implement libraries of efficient, transparent language extensions.

183 Revised report on the algorithmic language scheme



H. Abelson, R. K. Dybvig, C. T. Haynes, G. J. Rozas, N. I. Adams, D. P. Friedman, E. Kohlbecker, G. L. Steele, D. H. Bartley, R. Halstead, D. Oxley, G. J. Sussman, G. Brooks, C. Hanson, K. M. Pitman, M. Wand

July 1991 ACM SIGPLAN Lisp Pointers, Volume IV Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, citings, index terms Full text available: pdf(4.08 MB)

The report gives a defining description of the programming language Scheme. Scheme is a statically scoped and properly tail-recursive dialect of the Lisp programming language invented by Guy Lewis Steele Jr. and Gerald Jay Sussman. It was designed to have an

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John Colter, Netscape Navigator

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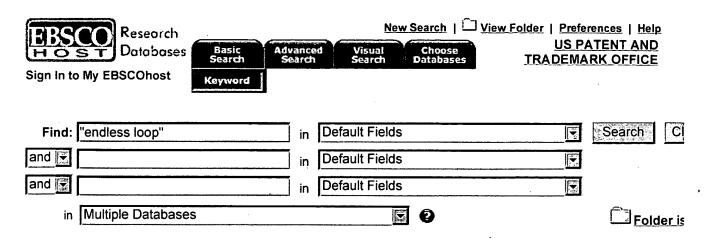
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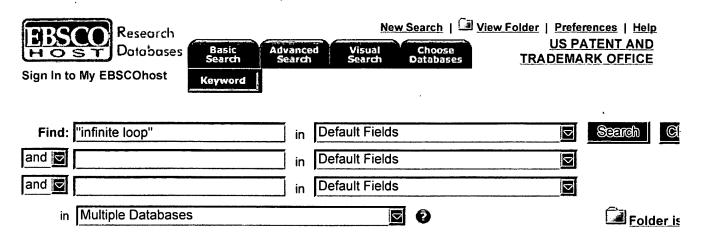
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| IEEE STD | IEEE Standard | Volume 7, Issue 2, Jun 1971 Page(s):312 - 315 Summary: A technique is described for producing anhysteretic remanent magin situ on an endless loop tape recorder. A comparison of noise from ARM with from room temperature isothermal remanent magnetization (IRM) is presente AbstractPlus Full Text: PDF(424 KB) IEEE JNL Rights and Permissions |
| | | 2. Real-time performance improvements for distributed databases on a wide Reddan, C.; Tabak, D.; Real Time, 1990. Proceedings., Euromicro '90 Workshop on 6-8 June 1990 Page(s):216 - 223 Digital Object Identifier 10.1109/EMWRT.1990.128254 Summary: An effort to improve the performance of distributed processing appl high-speed wide area networks is described. The primary limiting factor in this be latency, the innate propagation delay connected with sending signal AbstractPlus Full Text: PDF(516 KB) IEEE CNF Rights and Permissions |
| | | 3. Wave follower instrumentation platform redesign and test Harris, D.B.; DeCicco, D.J.; OCEANS '93. 'Engineering in Harmony with Ocean'. Proceedings 18-21 Oct. 1993 Page(s):1439 - 1443 vol.1 Digital Object Identifier 10.1109/OCEANS.1993.326052 Summary: The Office of Naval Research (ONR) sponsored the design and fat wave follower system. The wave follower is a mechanical device designed to p above and below the sea surface. Instruments are mounted on a platform susp. AbstractPlus Full Text: PDF(324 KB) IEEE CNF Rights and Permissions |

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| IEEE STD IEEE Standard | | Volume 10, Issue 6, Nov. 1995 Page(s):634 - 639 Digital Object Identifier 10.1109/63.471282 Summary: One-cycle control is a nonlinear control method. The fl is employed to study the large-signal and small-signal dynamic be switching converters. Systematic design method for one-cycle con | | | | | |
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| | | | Szabo, R.;
<u>Circuits and Systems, 19</u>
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International Conference on

Volume 3, 9-12 Sept. 1997 Page(s):1432 - 1435 vol.3

Digital Object Identifier 10.1109/ICICS.1997.652228

Summary: Workstations of a computer network can be used to implement a particular to implement a system. In this method the existing network equipment can be used without an cost for parallel processing. The aim of this paper is the development of a.....

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4. Pulling motion based tactile sensing for concave surface

Kaneko, M.; Higashimori, M.; Tsuji, T.;

Robotics and Automation, 1997. Proceedings., 1997 IEEE International Confer Volume 3, 20-25 April 1997 Page(s):2477 - 2484 vol.3

Digital Object Identifier 10.1109/ROBOT.1997.619333

This paper examines a family of program test data selection criteria derived from data I techniques similar to those used in compiler optimization. It is argued that currently us selection criteria which examine only the control flow of a program are ...

Result # 48 Relevance: 🗘

Control System for Self Calibrating Digital Converter Offsets in an Ana

1996-06-01 IPCOM000117796D

Analog circuits have offset voltages that can vary with usage conditions and subtract from dynamic range of the circuits. This disclosure describes a system that calibrates out the means of a 1 bit Analog to Digital Converter (ADC), a logic control ...

Relevance: 🗘 Result # 49

Automatic Multiple Concurrent Package Skew Minimization Algorithm

IPCOM000118798D

Disclosed is an algorithm which automatically minimizes skew across multiple packages selected set of nets. Skew is the difference in time between the earliest and latest sign: within a group or bundle of nets.

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Result # 41 Relevance: 🗘

MTS The Michigan Terminal System Volume 7: PL/I in MTS

1985-09-01

IPCOM000128754D

English

The software developed by the Computing Center staff for the operation of the high-spi computer can be described as a multiprogramming supervisor that handles a number o reentrant programs. Among them is a large subsystem, called MTS (Michigan Terminal

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| 3. Implicaciones medico-quirurgicas de las taquicardias de asa cerrada by Gascon Lopez, Damian, M.Med., | <u>à</u> | | • |
| <u>Abstract</u> | | | |
| 4. Statische Analyse von PROLOG-F
by Reichl, Franz, Dr.Tech., Technis | | et Wien (Austri | ia), 1988, 167 pages; AAT C105817 |
| Abstract | | | |
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Young, Robert P Small Systems V | |). Vol. 7, Iss. 6; | p. 24 |
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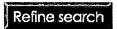
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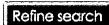
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